

PERMIT CHECK LIST

The following people have reviewed the permit:

Reviewing Permitting Engineer: _____

Air Inspector: _____

Air Compliance Manager: _____

Date: May 8, 2008

Source Name: Shared Hospital Services Registration No: 61279 Id. No.: 51-740-00101

Source Location: 3530 Elmhurst Lane

Mail Address: 3530 Elmhurst Lane, Portsmouth, VA 23701

Source Status: _____ Greenfield ☒ Currently operating

Source Classification: _____ Minor ☒ SynMinor _____ State Major _____ PSD Major _____ TV Major

Permit Action: installing 2 new Dc applicable boilers and 11 new dryers (replacing equipment)

Permit Action Program:

_____ NSR ☒ SOP _____ TV _____ Maj HAP

Permit Action Type:

_____ New / Article 6 Modification (delete one) ☒ Significant Amendment

_____ Minor Amendment/Modification _____ Administrative Amendment _____ Renewal

_____ State Major _____ PSD _____ Non-Attainment _____ General

Y (Y/N) Permit Includes All Emission Units at Source.

Y (Y/N) Permit Allows Source to avoid Title V/MACT/etc.

After this permit, source is: _____ Major (A) _____ Minor (B) ☒ Synthetic minor (SM)
(_____SO₂ and NO_x_____Pollutant)

Permit Application Review

☒ Permit application submitted, or _____ Letter Request

Application Received Date: 2/6/08

Application Complete Date: 4/25/08

Permit Deadline Date: 7/24/08

☒ Document Certification Form received

n/a Confidential information with sanitized copy. If yes, which sections:

_____ throughputs _____ individual pollutants _____ flow diagrams _____ calculations

_____ process descriptions _____ other (describe)

If yes, has claim been accepted by DEQ? (Y/N) - Date of letter: _____

n/a Copy of letter from local official for greenfield, or major modified sources

n/a Copy of letter sent to FLM if applicable. (Comments)

n/a Notification of Affected State(s)

This permit supersedes permit(s) dated August 27, 2003.

Regulatory Review

BACT Determination (check one):

_____ [Control Strategy/Equipment] @ _____ % efficiency for the control of _____ meets BACT

(Comments) _____, or

☒ TV/SOP/BACT not applicable. (Explain) Emissions at throughput limits are less than exemption levels for new equipment, therefore BACT does not apply.

Y (Y/N) NSPS/MACT/NESHAPS Applicability: If Y, Subpart(s):

Regulatory Review (cont.)

☐ Dc NSPS
☐ MACT
☐ NESHAPS

Y (Y/N) Existing Rules (9 VAC 5 Chapter 40) Applicability: If Y, Rule(s): 4-8 as determined from a previous permit.

Toxic Pollutants (check one):

☐ Exempt, or ☐ in compliance with 9 VAC 5-60-320, or ☒ not evaluated (**Reminder: remember to change the regulation to 9 VAC 5-60-220 when doing a SOP for existing sources**).

[Comments: _____]

Modeling (check one):

☐ Attached (including background monitors), or
☐ Copy of approval letter from modeling section,
☒ No modeling required by agency policy (< modeling significance levels, etc.)

Site Suitability:

☒ Site suitable from an air pollution standpoint, inspection date 9/24/07, or no inspection required because _____.

Y Calculation sheet(s) attached

N (Y/N) NSR Netting Comments (Explain Permit History):

N (Y/N) (CAM) Compliance Assurance Monitoring Applicable

Permit includes: ☐ Stack Testing ☐ CEM ☐ VEE by source

Public Participation

Y (Y/N) Public Noticed. If yes, Public Notice Date:

☐ (Y/N) Public Notice Comments. If yes, number and nature of comments:

☐ (Y/N) Public Hearing. If yes, Public Hearing Date:

EPA Review

☐ (Y/N) EPA Review. If yes, Date proposed permit sent to EPA _____.

☐ (Y/N) EPA Comments. If yes, give a brief summary _____.

Comments: The facility is adding 2 new Dc applicable boilers, 11 new dryers and an emergency generator.

The new boilers are not exempt based on their size. Since these new units are smaller than the currently permitted boilers and there is no change to the fuel throughput limit, the emission limits for the boilers will not change.

The new dryers are larger than the previously permitted ones so emission limits have been updated to show the worst case scenario using the existing fuel throughput limit, as there is no request to change it. Emission limits have also been updated for the additional emergency generator and facility wide.

The new emergency generator is not subject to NSPS IIII as it was manufactured prior to the April 1, 2006 applicability date.

The coating spray booth will be removed in the future. Currently it is only being used for storage (see memo from Bryan Devine dated 4/18/08). Conditions were left in the permit until DEQ is notified that it is no longer on site.

Once the facility completed their initial review of the draft permit, it was realized that there was a misunderstanding. Instead of installing additional dryers, the 10 new dryers would replace the current 14 (D1-

Regulatory Review (cont.)

14) and the 2 new Hurst boilers would replace the 2 Cleaver Brooks units. The emergency generator and steam dryer will remain on site and their sizes were corrected.

The permit was set up to allow for 2 operating scenarios. One for before the old equipment has been removed and one for after. This will enable us to have both situations covered and only have to go to public notice once. Notification shall be given to this office upon the removal of each piece of equipment as well as a final notification once all the equipment has been removed and Scenario #2 is in effect.

Final Recommendation: Recommend Approval.

Environmental Engineer's Signature: _____

Air Permit Manager's Signature: _____

May 8, 2008

Mr. Mark Smoyer
President
Shared Hospital Services
3530 Elmhurst Lane
Portsmouth, VA 23701

Location: Portsmouth
Registration No.: 61279

Dear Mr. Smoyer:

Attached is a significant amendment to your state operating permit to construct and operate a hospital laundry facility in accordance with the provisions of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit supersedes your permit dated August 27, 2003.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on April 25, 2008 and solicited written public comments by placing a newspaper advertisement in the [REDACTED] on [REDACTED]. The required comment period, provided by 9 VAC 5-80-1170 D expired on [REDACTED].

This permit approval to construct and operate shall not relieve Shared Hospital Services of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-200 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218-1105

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

A copy of the results of performance test(s) required by 40 CFR 60, Subpart Dc shall to be sent to:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

If you have any questions concerning this permit, please contact Kelly Giles at 757-518-2155.

Sincerely,

Jane A. Workman
Air Permit Manager

jaw/krq/61279_004_08_SOP

Attachments: Permit
NSPS, Subpart Dc

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
Manager/Inspector, Air Compliance

STATIONARY SOURCE PERMIT TO OPERATE
This permit includes designated equipment subject to
New Source Performance Standards (NSPS).

This permit supersedes your permit dated August 27, 2003.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia
Regulations for the Control and Abatement of Air Pollution,

Shared Hospital Services
3530 Elmhurst Lane
Portsmouth, Virginia 23701
Registration No.: 61279

is authorized to operate

a hospital laundry facility

located at

3530 Elmhurst Lane
Portsmouth, Virginia

in accordance with the Conditions of this permit.

Approved on

DRAFT.

Francis L. Daniel

Permit consists of 15 pages.
Permit Conditions 1 to 51.

INTRODUCTION

1. This permit approval is based on the permit application dated November 11, 2001, July 14, 2003 and February 4, 2008, including amendment information dated December 12, 2001, July 25, 2003 and supplemental information dated February 4, 2008, April 14, 2008 and April 25, 2008. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

2. Equipment List - Equipment at this facility consists of the following:

Equipment to be Constructed			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
HB 1-2	Two (2) Hurst boilers	10.5 mmBtu/hr each	NSPS Dc
D 16-25	Ten (10) Kannegiesser dryers	2.2 mmBtu/hr each	N/A
Equipment permitted prior to the date of this permit			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
D 15	One (1) Lavatec Steam dryer (steam from CB 1-2 and/or HB 1-2)	1.3 mmBtu/hr	N/A
G 1	One (1) Caterpillar emergency generator	750 kW	N/A
Equipment to be removed from site			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
CB 1-2	Two (2) Cleaver Brooks boilers	25.1 mmBtu/hr each	N/A
D 1-12	Twelve (12) Lavatec dryers	1.1 mmBtu/hr each	N/A
D 13-14	Two (2) Norman dryers	9.5 mmBtu/hr each	N/A
SB1	One (1) Surface coating spray booth	0.25 gal/hr	N/A

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.

(9 VAC 5-80-850)

OPERATING SCENARIO #1

The following conditions shall be in effect while equipment Ref. Nos. CB 1-2, D 1-12, D 13-14 and SB1 remain at the facility.

OPERATING LIMITATIONS

3. **Throughput** – The throughput of coatings (as applied) for the surface coating spray booth (SB1) shall not exceed 10 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)
4. **Throughput** – The throughput of thinners and solvents used for clean-up associated with the surface coating spray booth (SB1) shall not exceed 5 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)
5. **Operating Hours** - The emergency generator (Unit Ref. No. G1) shall not operate more than 500 hours per year, each, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)
6. **Fuel** - The approved fuels for the boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2) are distillate oil and natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
7. **Fuel** - The approved fuel for the 24 dryers (Unit Ref. Nos. D1-12, D13-14, and D16-25) is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
8. **Fuel** - The approved fuel for the emergency generator (Unit Ref. No. G1) is distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
9. **Fuel Throughput** – The boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2), combined, shall consume no more than 500,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

10. **Fuel Throughput** – The 24 dryers (Unit Ref. Nos. D1-12, D13-14, and D16-25), and 4 boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2), combined, shall consume no more than 668 million cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

11. **Fuel** - The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.05%
(9 VAC 5-80-850)

12. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for numbers 1 or 2 fuel oil;
- e. The sulfur content of the distillate oil;

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number 11. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9 VAC 5-80-850)

13. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 2 shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.

Note: All applicable requirements of 40 CFR 60, Subpart Dc may not be specifically listed in this permit. The permittee should refer to the applicable regulation for additional requirements not included in this permit.

(9 VAC 5-80-850, 9 VAC 5-50-400 and 9 VAC 5-50-410)

EMISSION LIMITS

14. **Process Emission Limits** - Emissions from the operation of the 4 boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2) shall not exceed the limits specified below:

	Each	Combined
Particulate Matter (PM)	0.4 lbs/hr	0.9 tons/yr
PM-10	0.2 lbs/hr	0.6 tons/yr
Sulfur Dioxide	1.3 lbs/hr	1.9 tons/yr
Nitrogen Oxides (as NO ₂)	3.6 lbs/hr	25.0 tons/yr
Carbon Monoxide	2.1 lbs/hr	18.1 tons/yr
Volatile Organic Compounds	0.1 lbs/hr	1.2 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 6, 9, 10, 11, 12, 13, 18 and 19.
(9 VAC 5-80-850)

15. **Process Emission Limits** - Emissions from the operation of the 24 dryers (Unit Ref. Nos. D1-12, D13-14, and D16-25) shall not exceed the limits specified below:

Particulate Matter (PM)	1.8 tons/yr
Nitrogen Oxides (as NO ₂)	19.3 tons/yr
Carbon Monoxide	23.0 tons/yr
Volatile Organic Compounds	1.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 7, 10 and 20.
(9 VAC 5-80-850)

16. **Process Emission Limits** - Emissions from the operation of the emergency generator (Unit Ref. Nos. G1) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	6.0 tons/yr
Carbon Monoxide	1.4 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 5, 8, 11, 12 and 21.
(9 VAC 5-80-850)

17. **Facility wide Emission Limits** - Total emissions from the hospital laundry facility shall not exceed the limits specified below:

Particulate Matter (PM)	2.8 tons/yr
PM-10	1.0 tons/yr
Sulfur Dioxide	2.1 tons/yr
Nitrogen Oxides (as NO ₂)	55.1 tons/yr
Carbon Monoxide	43.6 tons/yr
Volatile Organic Compounds	2.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 3 - 13 and 18 - 21.
(9 VAC 5-80-850)

18. **Visible Emission Limit** - Visible emissions from the boilers (Unit Ref. Nos. CB1 and CB2) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)

19. **Visible Emission Limit** - Visible emissions from the boilers (Unit Ref. Nos. HB1 and HB2) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)

20. **Visible Emission Limit** - Visible emissions from the each of the dryer (Unit Ref. Nos. D1-12, D13-14, and D16-25) stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)

21. **Visible Emission Limit** - Visible emissions from the emergency generator (Unit Ref. Nos. G1) stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)

RECORDS AND REPORTING

22. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- a. Annual throughput of coatings (in gallons/year) for the surface coating spray booth (SB1), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - b. Annual throughput of thinners/solvents (in gallons/year) for the surface coating spray booth (SB1), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - c. Material Safety Data Sheets (MSDS) or other vendor information showing VOC content (in lbs/gal) and HAP content (in % by weight) for each coating, thinner and solvent used.
 - d. Annual hours of operation for emergency generator (Unit Ref. Nos. G1), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - e. Annual throughput of distillate oil for the boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - f. Annual throughput of natural gas for the dryers (Unit Ref. Nos. D1-12, D13-14, and D16-25) and boilers (Unit Ref. Nos. CB1, CB2, HB1 and HB2), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - g. All fuel supplier certifications.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-850)

OPERATING SCENARIO #2

The following conditions shall be in effect once Ref. Nos. CB 1-2, D 1-12, D 13-14 and SB1 have all been removed from the facility.

OPERATING LIMITATIONS

23. **Operating Requirements** - The equipment Ref. Nos. CB 1-2, D 1-12, D 13-14 and SB1, shall cease operations and be removed from the facility or determined by DEQ to be permanently shutdown. A change in this equipment status may require a permit to modify and operate. No operations of the listed equipment shall occur until the owner has obtained approval from the DEQ.
(9 VAC 5-80-850)
24. **Operating Hours** - The emergency generator (Unit Ref. No. G1) shall not operate more than 500 hours per year, each, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)
25. **Fuel** - The approved fuels for the boilers (Unit Ref. Nos. HB1 and HB2) are distillate oil and natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
26. **Fuel** - The approved fuel for the 10 dryers (Unit Ref. Nos. D16-25) is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
27. **Fuel** - The approved fuel for the emergency generator (Unit Ref. No. G1) is distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
28. **Fuel Throughput** – The boilers (Unit Ref. Nos. HB1 and HB2), combined, shall consume no more than 500,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)
29. **Fuel Throughput** – The 10 dryers (Unit Ref. Nos. D16-25), and 2 boilers (Unit Ref. Nos. HB1 and HB2), combined, shall consume no more than 111.3 million cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

30. **Fuel** - The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.05%
(9 VAC 5-80-850)

31. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for numbers 1 or 2 fuel oil;
- e. The sulfur content of the distillate oil;

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number 30. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9 VAC 5-80-850)

32. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 2 shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.

Note: All applicable requirements of 40 CFR 60, Subpart Dc may not be specifically listed in this permit. The permittee should refer to the applicable regulation for additional requirements not included in this permit.

(9 VAC 5-80-850, 9 VAC 5-50-400 and 9 VAC 5-50-410)

EMISSION LIMITS

33. **Process Emission Limits** - Emissions from the operation of the 2 boilers (Unit Ref. Nos.HB1 and HB2) shall not exceed the limits specified below:

	Each	Combined
Particulate Matter (PM)	0.2 lbs/hr	0.7 tons/yr
Sulfur Dioxide	0.5 lbs/hr	1.8 tons/yr
Nitrogen Oxides (as NO ₂)	1.5 lbs/hr	9.2 tons/yr
Carbon Monoxide	0.9 lbs/hr	7.7 tons/yr
Volatile Organic Compounds	0.1 lbs/hr	0.5 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 25, 28, 29, 30, 31, 32 and 37.
 (9 VAC 5-80-850)

34. **Process Emission Limits** - Emissions from the operation of the 10 dryers (Unit Ref. Nos.D16-25) shall not exceed the limits specified below:

Particulate Matter (PM)	0.7 tons/yr
Nitrogen Oxides (as NO ₂)	9.6 tons/yr
Carbon Monoxide	8.1 tons/yr
Volatile Organic Compounds	0.5 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 26, 29 and 38.
 (9 VAC 5-80-850)

35. **Process Emission Limits** - Emissions from the operation of the emergency generator (Unit Ref. Nos. G1) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	6.0 tons/yr
Carbon Monoxide	1.4 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 24, 27, 30, 31 and 39.
 (9 VAC 5-80-850)

36. **Facility wide Emission Limits** - Total emissions from the hospital laundry facility shall not exceed the limits specified below:

Particulate Matter (PM)	1.6 tons/yr
Sulfur Dioxide	2.0 tons/yr
Nitrogen Oxides (as NO ₂)	23.3 tons/yr
Carbon Monoxide	18.7 tons/yr
Volatile Organic Compounds	1.2 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 23 - 32 and 37 - 39.

(9 VAC 5-80-850)

37. **Visible Emission Limit** - Visible emissions from the boilers (Unit Ref. Nos. HB1 and HB2) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)
38. **Visible Emission Limit** - Visible emissions from the each of the dryer (Unit Ref. Nos. D16-25) stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)
39. **Visible Emission Limit** - Visible emissions from the emergency generator (Unit Ref. Nos. G1) stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850)

RECORDS AND REPORTING

40. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- Annual hours of operation for emergency generator (Unit Ref. Nos. G1), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. Annual throughput of distillate oil for the boilers (Unit Ref. Nos. HB1 and HB2), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. Annual throughput of natural gas for the dryers (Unit Ref. Nos. D16-25) and boilers (Unit Ref. Nos. HB1 and HB2), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- d. All fuel supplier certifications.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-850)

OPERATING SCENARIOS #1 and #2

The following conditions shall be in effect for both operating scenarios.

NOTIFICATIONS

41. **Initial Notifications** - The permittee shall furnish written notification to the Tidewater Regional Office of:

- a. The actual date on which installation of the boilers (Unit Ref. Nos. HB1 and HB2) commenced within 30 days after such date.
- b. The actual start-up date of the boilers (Unit Ref. Nos. HB1 and HB2) within 15 days after such date.

Copies of the written notification referenced in items a and b above are to be sent to:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-50-50 and 9 VAC 5-80-1180)

42. **Notifications** - The permittee shall furnish written notification to the Tidewater Regional Office of:

- a. The actual date on which removal of each piece of equipment, Ref. Nos. CB 1-2, D 1-12, D 13-14 and SB1, occurred, within 30 days after such date.
- b. Final notification that all the above equipment has been removed and Scenario #2 is applicable.

(9 VAC 5-80-850)

RECORDS AND REPORTING

43. **Semi-Annual Reports** - The permittee shall submit fuel quality reports for NSPS Dc applicable boilers (Ref. Nos. HB1 and HB2) to the Tidewater Regional Office within 30 days after the end of each semi-annual period. If no shipments of distillate oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include:

- a. Dates included in the semi-annual period,
- b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 31 for each shipment of distillate oil, and
- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility.

One copy of the semi-annual report shall be submitted to the U.S. Environmental Protection Agency at the address specified in Condition 41.

(9 VAC 5-170-160 and 9 VAC 5-50-50)

GENERAL CONDITIONS

44. **Emission Testing** - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9 VAC 5-80-880 and 9 VAC 5-80-850)

45. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130 and 9 VAC 5-80-850)

46. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Tidewater Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone, or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Tidewater Regional Office in writing.

(9 VAC 5-20-180 C and 9 VAC 5-80-850)

47. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-20-180 I and 9 VAC 5-80-850)

48. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

(9 VAC 5-50-20 E and 9 VAC 5-80-850)

49. **Permit Suspension/Revocation** - This permit may be revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the terms or conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted emissions unit;
- d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
- e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time that an application for this permit is submitted;
- f. Fails to comply with the applicable provisions of Articles 6, 8 and 9 of 9 VAC 5 Chapter 80.

(9 VAC 5-80-1010)

50. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Director, Tidewater Regional Office of the change of ownership within 30 days of the transfer.

(9 VAC 5-80-940)

51. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-860 D)

DRAFT PERMIT APPROVAL FORM

Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, Virginia 23462

Instructions:

The "Draft Permit Approval Form" provides the owner or certified company official an opportunity to accept or suggest appropriate changes to a draft permit. If a signed form is not received within one (1) week of the date of receipt of the draft permit, DEQ will assume that the draft permit is considered acceptable and will proceed with processing the permit. **Please check the applicable statement(s) below after thoroughly reviewing the draft permit. Forms may be returned by facsimile to 757-518-2009,**

Attention: Ms. Kelly R. Giles or Ms. Jane A. Workman.

_____ The owner or certified company official agrees with the conditions of the draft permit dated _____ . Please proceed to issue the permit with no change.

_____ The owner or certified company official finds condition number(s) _____ of the draft permit dated _____ unacceptable.

_____ The suggested changes are attached for your consideration.

_____ The owner or certified company official requests further discussion with DEQ regarding the above referenced condition(s).

Signature: _____

Name: _____

Title: _____

Facility: _____

Date: _____